

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

1-13. (Canceled)

14. (Currently amended) An infusion device for subcutaneously administering a medicinal fluid or a therapeutic fluid to a patient, said infusion device comprising:

a base element;

a septum housing; and

a septum pierceable by a needle,

said base element including

~~an opening for receiving said fluid,~~

~~a cannula through which said fluid is transferred to a~~

~~patient, and~~

~~a recess including an inlet for receiving said fluid from said~~

~~fluid opening, a fluid transfer volume formed in said recess, an~~

~~outlet communicating with said cannula, and an opening for~~

~~receiving said septum housing~~ a fluid path that guides fluid from

a fluid inlet opening to a fluid outlet communicating with a

cannula, said fluid path having a fluid transfer volume such that

walls of said fluid transfer volume are in contact with the fluid

and such that said walls of the fluid transfer volume are at least partly formed by walls of a recess in the base element,

said septum being accommodated in and fixed inside said septum housing such that an internal surface of said septum forms a surface of the fluid transfer volume, and

said septum housing being accommodated in and fixed inside said recess of said base element.

15. (Previously presented) The infusion device according to claim 14, wherein said septum housing has an opening through which said fluid in the fluid transfer volume is in contact with said septum.

16. (Previously presented) The infusion device according to claim 14, wherein said septum housing is a tubular element accommodating said septum, at least one end of said tubular element forming a substantially partial enclosure over one surface of said septum.

17. (Previously presented) The infusion device according to claim 14, wherein said septum housing includes an integrally formed cannula bushing.

18. (Previously presented) The infusion device according to claim 14, wherein one surface of said septum is substantially exposed.

19. (Previously presented) The infusion device according to claim 14, wherein said septum housing is fixed to said base element by welding.

20. (Previously presented) The infusion device according to claim 19, wherein said welding is ultrasonic welding.

21. (Previously presented) The infusion device according to claim 14, wherein said septum housing is fixed to said base element by a snap-lock.

22. (Previously presented) The infusion device according to claim 14, wherein said septum housing is fluid-sealed by ultrasonic welding to said base element.

23. (Previously presented) The infusion device according to claim 14, wherein said septum housing is fluid-sealed by a gasket arranged between said septum housing and an inner section of said recess.

24. (Previously presented) The infusion device according to claim 14, wherein said septum is fixed inside said septum housing by friction.

25. (Previously presented) The infusion device according to claim 14, wherein said septum is fixed inside said septum housing by welding.

26. (Previously presented) The infusion device according to claim 25, wherein said welding is ultrasonic welding.

27. (Previously presented) The infusion device according to claim 14, wherein said septum is radially compressed and is configured to assist in the fixing and fluid-sealing of said septum housing to said base element.

28. (Previously presented) The infusion device according to claim 14, wherein a fluid-tight seal between said septum and said septum housing is provided by (i) a resilient material and selected dimensions of said septum and said septum housing, and (ii) said septum being substantially mainly radially compressed in said septum housing.

29. (Previously presented) The infusion device according to claim 14, wherein said septum is premountable in said septum housing.

30. (Previously presented) The infusion device according to claim 14, wherein said septum housing is provided as a single piece.

U.S. Appln. No.: 10/589,946
Atty. Docket No.: 69516US1

31. (Previously presented) The infusion device according to claim 14, wherein said recess forms a cavity accommodating said septum housing and said septum.